

Appln. No. 09/676,598
Response dated March 27, 2006
Reply to Office Action of December 27, 2005
Docket No. BOC9-2000-0005 (554)

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1 -10. Withdrawn

11. (Currently Amended) A method of providing driving instructions including the steps of

sensing a position of the vehicle;

comparing the position of the vehicle with a desired location;

if the vehicle is in a predetermined position ~~with respect to the desired location,~~
generating a signal which indicates that the driver should take an action, wherein the predetermined position is determined based upon an estimated time when the driver should take the action; [[and]]

in response to the signal, displaying on a windshield of the vehicle a message indicating the action the driver should take the action along with a virtual image of an area around the desired location, the image including at least one landmark~~[[,]] wherein at least one attribute of the at least one landmark changes as the vehicle moves in relation to the at least one landmark; and~~

terminating the displaying of the message and virtual image prior to when the driver should take the action.

12. (Original) A method including the steps of Claim 11 wherein the step of generating a signal includes the step of providing an audible signal indicating that the driver should take an action.

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13. (Original) A method including the steps of Claim 12 wherein the step of providing an audible signal indicates that a message is displayed on the windshield.

14. (Original) A method including the steps of Claim 12 wherein the step of providing an audible signal includes the step of broadcasting the message on a speaker.

15. (Original) A method including the steps of Claim 11 wherein the method further includes the step of displaying a distance to the desired action.

16. (Previously Amended) A method including the steps of Claim 11 where the method further includes the step of determining the speed of the vehicle and providing an indication of the desired action a predetermined time period in advance of the desired action.

17. (Previously Amended) A method including the steps of Claim 11 wherein the method further includes the step of determining when the vehicle has passed the desired location and providing an indication that the driver has missed a turn, whereby the driver may take action more quickly to recover from missing the desired location.

18. (Cancelled) A method including the steps of Claim 11 wherein the predetermined relationship is estimated time to the desired location.

19. (Cancelled) A method including the steps of Claim 11 wherein the predetermined relationship is distance to the desired location.

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20. (Previously Amended) A program stored on a storage medium for generating a displayed message to a driver of a vehicle on the windshield of the vehicle, the program comprising:

a program element for determining a message for display, the message indicating an action the driver should take;

a program element for determining an appropriate time for displaying the message, the appropriate time being based on an estimated time when the driver should take the action;

a program element coupled to a projector for providing the message for display at the appropriate time for the display, whereby the message can be displayed to the driver on the windshield of his car at the appropriate time, and for providing a virtual image of an area corresponding to a ~~current location of the vehicle~~ a location at which the driver should take the action, the virtual image including at least one landmark, ~~wherein at least one attribute of the at least one landmark changes as the vehicle moves in relation to the landmark; and~~

a program element for terminating the displaying of the message and virtual image prior to when the vehicle will reach the location at which the driver should take the action.

21. (Previously Amended) A program of the type described in Claim 20 wherein the program element for determining the message for display includes a stored program indicating at least one desired driving direction and a location for that driving direction to be displayed and the program further includes a program element for determining when the vehicle is in the location for the driving direction to be displayed.

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22. (Original) A program of the type described in Claim 21 wherein the program element for determining when the car is in the location for the direction to be displayed includes a program element for receiving global positioning information.

23. (Previously Amended) A program of the type described in Claim 21 wherein the program element for storing at least one driving direction includes a program element for receiving the driving instruction from a remote source.

24. (Previously Amended) A program of the type described in Claim 21 where the program element for storing at least one driving direction includes a stored navigational program.

25. Withdrawn

26. (Currently Amended) A system for displaying information to a driver in a vehicle comprising:

a location system which determines the location of the vehicle;

a storage device which provides a picture of ~~[[the]]~~ a roadway near ~~[[the]]~~ a desired location of the vehicle in response to the location of the vehicle at which a driver action should be taken; and

a device which generates a display of the picture of the roadway on the windshield of the vehicle allowing the driver of the vehicle to see the display without removing his eyes from the roadway, wherein the picture includes at least one image of a landmark, ~~at least one attribute of the image of the landmark changing as the vehicle moves in relation to the landmark;~~

wherein the device generates the display based upon at least one of an estimated distance from the vehicle location to the desired location and an estimated time for the

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vehicle to reach the desired location, and wherein the device terminates the display prior to the vehicle reaching the desired location.

27. (Previously Presented) A system of the type described in Claim 26 wherein the picture displayed is a live picture.

28. (Previously Presented) A system of the type described in Claim 27 wherein the live picture is from a camera mounted over the roadway.

29. (Previously Presented) A system of the type described in Claim 26 wherein the display includes driving directions.

30. (Previously Presented) A system of the type described in Claim 29 wherein the display includes driving directions in the form of a turn indicated on the picture of the roadway.

31. (Previously Presented) A system of the type described in Claim 26 wherein the picture is a picture taken previously and stored in memory.

32. (Currently Amended) A method for displaying information to a vehicle driver comprising the steps of:

determining ~~[[the]]~~ a first position of the vehicle;

finding a picture of an intersection ~~based on the position of the vehicle~~ at which a driver action should be taken;

displaying the picture of the intersection on the windshield of the vehicle so that the driver can see the picture while looking out the windshield, wherein the picture of the intersection includes at least one image of a landmark, ~~at least one attribute of the image~~

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~~of the landmark changing as the vehicle moves relative to landmark and wherein the picture is displayed based upon at least one of an estimated distance from the first determined vehicle position to the intersection and an estimated time at which the driver action should be taken given the determined vehicle position; and~~
terminating the displaying of the picture prior to the vehicle reaching the intersection given a second determined position of the vehicle.

33. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of finding a picture includes the step of retrieving a stored picture of the roadway from memory.

34. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of finding a picture includes the step of receiving a live picture of the roadway.

35. (Previously Presented) A method of displaying information including the steps of Claim 34 wherein the step of finding a picture includes the step of receiving a live picture from a camera mounted above the intersection.

36. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of displaying a picture of the intersection further includes the step of adding driving instructions to the display.

37 - 44. Withdrawn

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45. (Previously Presented) A method including the steps of Claim 11, wherein the at least one attribute is a size of the at least one landmark, the size increasing as the vehicle moves closer to the at least one landmark.

46. (Previously Presented) A method including the steps of Claim 11, wherein the at least one attribute is a brightness of the landmark, the brightness increasing as the vehicle moves closer to the at least one landmark.

47. (Previously Presented) The system of Claim 26, wherein the display further includes text superimposed on the picture, the text providing information corresponding to the landmark.

48. (Previously Presented) A method including the steps of Claim 32, further comprising superimposing on the display textual information corresponding to the landmark.

49. Withdrawn

50. (New) A method including the steps of Claim 11, further comprising displaying on the windshield of the vehicle information corresponding to the at least one landmark and information corresponding to the environs of the desired location.

51. (New) A method including the steps of Claim 11, further comprising displaying on the windshield of the vehicle at least one of an e-mail message, an advertisement, a news report, a weather report, and a traffic advisory.

52. (New) A method of providing driving instructions including the steps of sensing a position of the vehicle;

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comparing the position of the vehicle with a desired location;

if the vehicle is in a predetermined position, generating a signal which indicates that the driver should take an action, wherein the predetermined position is determined based upon an estimated distance to a location at which the driver should take the action;

in response to the signal, displaying on a windshield of the vehicle a message indicating the action the driver should take the action along with a virtual image of an area around the desired location, the image including at least one landmark; and

terminating the displaying of the message and virtual image prior to the vehicle reaching the location at which the driver should take the action.

53. (New) A method including the steps of Claim 52 wherein the step of generating a signal includes the step of providing an audible signal indicating that the driver should take an action.

54. (New) A method including the steps of Claim 53 wherein the step of providing an audible signal indicates that a message is displayed on the windshield.

55. (New) A method including the steps of Claim 54 wherein the step of providing an audible signal includes the step of broadcasting the message on a speaker.

56. (New) A method including the steps of Claim 52 wherein the method further includes the step of displaying a distance to the desired action.

57. (New) A method including the steps of Claim 52 where the method further includes the step of determining the speed of the vehicle and providing an indication of the desired action a predetermined time period in advance of the desired action.

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58. (New) A method including the steps of Claim 52 wherein the method further includes the step of determining when the vehicle has passed the desired location and providing an indication that the driver has missed a turn, whereby the driver may take action more quickly to recover from missing the desired location.

59. (New) A method including the steps of Claim 52, further comprising displaying on the windshield of the vehicle information corresponding to the at least one landmark and information corresponding to the environs of the desired location.

60. (New) A method including the steps of Claim 52, further comprising displaying on the windshield of the vehicle at least one of an e-mail message, an advertisement, a news report, a weather report, and a traffic advisory.